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Application No. 10/667,238
Response to Office Action of March 26, 2008

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A paper or paperboard comprising a paper web that comprises
cellulosic fibers,
at least one starch selected from the group consisting of anionic starch, cationic
starch, amphipathic starch, corn starch, wheat starch, potato starch, rice starch, tapioca starch,
and sago starch, and
a boron-containing compound, wherein
the amount of boron-containing compound is equal to or less than about 7% by weight
of the starch; and
greater than 50% of the starch and boron-containing compound is located at at least
one surface of the web.
2. (Previously Presented) The paper or paperboard of claim 1, further comprising a sizing,
wherein the sizing comprises at least a portion of a total amount of the starch and at least a
portion of a total amount of the boron-containing compound.
3. (Cancelled)
4. (Cancelled)
5. (Original) The paper or paperboard of claim 1 wherein the amount of starch is equal to or
less than about 200 lbs per ton of fiber.
6. (Cancelled)
7. (Original) The paper or paperboard of claim 1 wherein the boron-containing compound is
selected from the group consisting of boric acid and borate metal salts.

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8. (Previously Presented) The paper or paperboard of claim 1, wherein the boron-containing compound is selected from the group consisting of boric acid, borax, and zinc borate.

9. (Original) The paper or paperboard of claim 1 wherein the boron-containing compound and the starch form a complex.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Previously Presented) A method for making the paper or paperboard according to Claim 1, comprising:
providing a papermaking furnish comprising cellulosic fibers, starch and a boron-containing;
forming a fibrous web from the papermaking furnish; and
drying the web

15. (Original) The method of claim 14 further comprising calendering the web to provide a finished paper or paperboard.

16. (Original) The method of claim 14 which further comprises mixing converted starch and at least a portion of the boron-containing compound to provide a slurry and adding the slurry to a cellulosic fiber furnish to provide the papermaking furnish.

17. (Original) The method of claim 14 which further comprises mixing unconverted starch and at least a portion of the boron-containing compound to provide a slurry, cooking the slurry to convert the starch and adding the cooked slurry to a cellulosic fiber furnish to provide the papermaking furnish.

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18. (Original) The method of claim 1 which further comprises adding the boron-containing compound and the converted starch individually to a cellulosic fiber furnish to provide the papermaking furnish.

19. (Currently Amended) A method for making the paper or paperboard according to Claim 1, comprising:

- providing a papermaking furnish including ~~including~~ comprising cellulosic fibers;
- forming a fibrous web from the papermaking furnish;
- drying the web; and
- sizing the web by applying slurry to the web, the slurry including starch solids and a boron-containing compound.

20. (Original) The method of claim 19 further comprising calendering the sized web to provide a finished paper or paperboard.

21. (Currently Amended) The paper ~~of or~~ or paperboard according to Claim 1, wherein the amount of boron-containing compound is from about 0.2% to about 7% by weight of the starch.

22. (Currently Amended) The paper ~~of or~~ or paperboard according to Claim 1, wherein the amount of boron-containing compound is less than 5% by weight of the starch.

23. (Currently Amended) The paper ~~of or~~ or paperboard according to Claim 1, wherein the amount of boron-containing compound is from about 0.2 to less than 5% by weight of the starch.

24. (New) The method according to Claim 19, wherein the papermaking furnish further comprises hollow microspheres.

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25. (New) The method according to Claim 14, wherein the papermaking furnish further comprises hollow microspheres.

26. (New) The paper or paperboard according to Claim 1, further comprising hollow microspheres.

27. (New) The paper or paperboard according to Claim 1, wherein the paper or paperboard is at least one member selected from the group consisting of office paper, form paper, envelope paper, label stock paper, bristol paper, printing paper, publication paper, bleached board, and linerboard.